



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
Store 3 - Norton
 Machine Id
IHI IC45 E025 (S/N CE000928)
 Component
Right Final Drive
 Fluid
GEAR OIL SAE 90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated. Component wear metal level(s) high for break in.

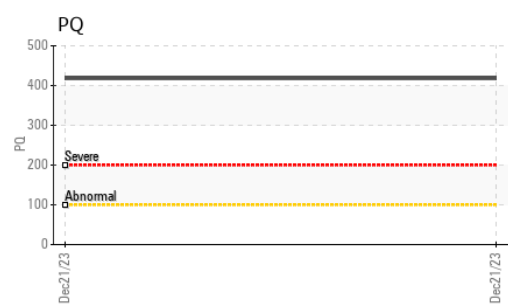
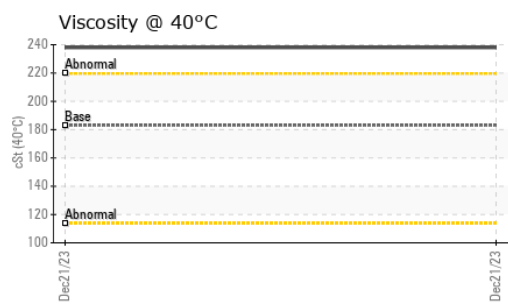
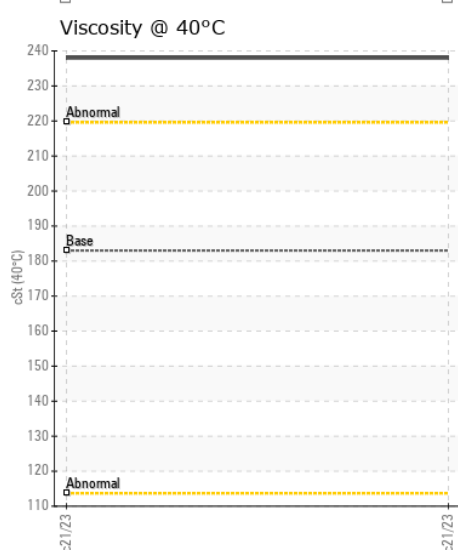
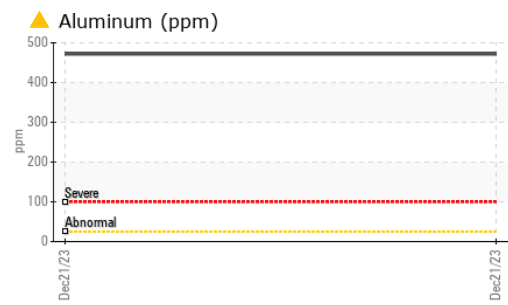
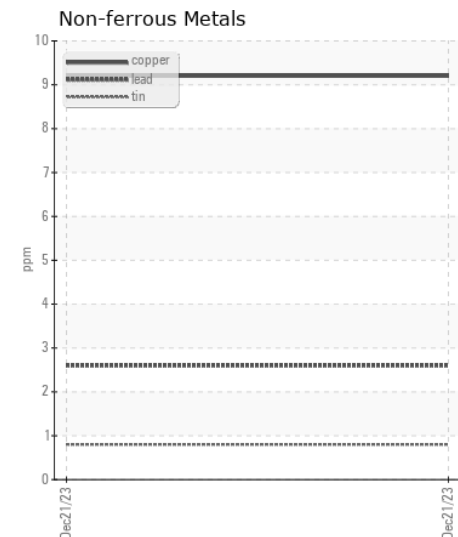
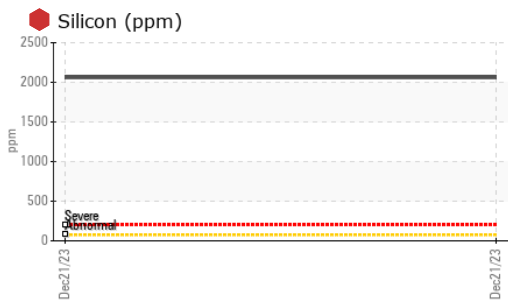
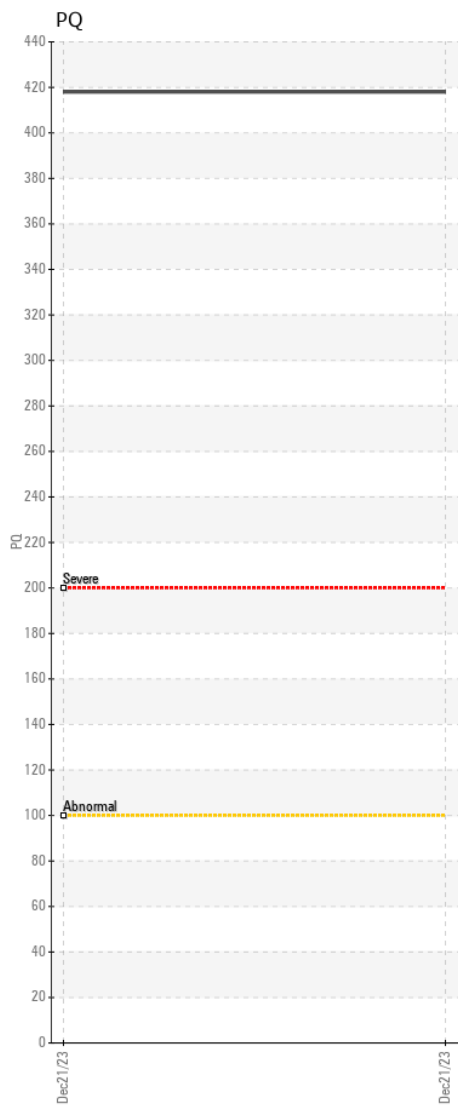
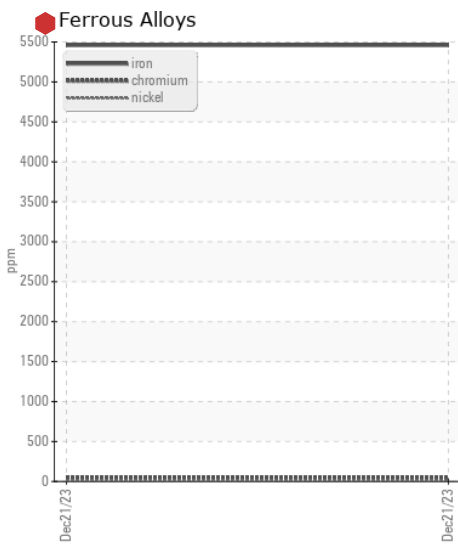
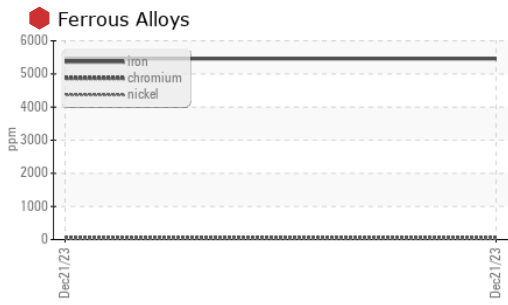
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047600	---	---
Sample Date		Client Info		21 Dec 2023	---	---
Machine Age	hrs	Client Info		550	---	---
Oil Age	hrs	Client Info		550	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		418	---	---
Iron	ppm	ASTM D5185m	>500	5459	---	---
Chromium	ppm	ASTM D5185m	>10	49	---	---
Nickel	ppm	ASTM D5185m	>10	16	---	---
Titanium	ppm	ASTM D5185m		35	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	472	---	---
Lead	ppm	ASTM D5185m	>25	3	---	---
Copper	ppm	ASTM D5185m	>50	9	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	2061	---	---
Potassium	ppm	ASTM D5185m	>20	677	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185m		28	---	---
Boron	ppm	ASTM D5185m	400	470	---	---
Barium	ppm	ASTM D5185m	200	3	---	---
Molybdenum	ppm	ASTM D5185m	12	5	---	---
Manganese	ppm	ASTM D5185m		37	---	---
Magnesium	ppm	ASTM D5185m	12	49	---	---
Calcium	ppm	ASTM D5185m	150	736	---	---
Phosphorus	ppm	ASTM D5185m	1650	604	---	---
Zinc	ppm	ASTM D5185m	125	369	---	---
Sulfur	ppm	ASTM D5185m	22500	12743	---	---
Visc @ 40°C	cSt	ASTM D445	183	238	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047600 **Received** : 17 Jan 2024
Lab Number : 06063887 **Diagnosed** : 20 Jan 2024
Unique Number : 10835269 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
 Contact: JESSE WILBURN
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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)